

Title (en)

Laser scanning microscope and microscopic observing method

Title (de)

Laserscan-Mikroskop und mikroskopisches Überwachungsverfahren

Title (fr)

Microscope à balayage laser et procédé d'observation au microscope

Publication

**EP 1862838 A2 20071205 (EN)**

Application

**EP 07010054 A 20070521**

Priority

JP 2006148258 A 20060529

Abstract (en)

To provide a laser scanning microscope including a laser beam source for stimulation that emits a laser beam for stimulation for applying photostimulation to a sample, a scanner that performs scanning with the laser beam for stimulation, a control device that controls the scanner, and an objective lens that condenses the laser beam for stimulation used for scanning by the scanner to the sample. The scanner has at least one acoustooptic device arranged on an optical path of the laser beam for stimulation. The control device determines a plurality of frequencies on the basis of the position and the range of a photostimulation region, and simultaneously applies the high-frequency signals of the determined plurality of frequencies to a vibrator attached to the acoustooptic device.

IPC 8 full level

**G02B 21/00** (2006.01)

CPC (source: EP US)

**G02B 21/0048** (2013.01 - EP US); **G02B 21/0064** (2013.01 - EP US); **G02B 21/0076** (2013.01 - EP US)

Cited by

EP2325683A3; US9069227B2; US8411358B2; US9341919B2; WO2011131933A1; US8294977B2; US8687268B2; US9104087B2

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

**EP 1862838 A2 20071205**; **EP 1862838 A3 20080227**; **EP 1862838 B1 20090819**; AT E440301 T1 20090915; DE 602007002008 D1 20091001; US 2007272885 A1 20071129; US 7724426 B2 20100525

DOCDB simple family (application)

**EP 07010054 A 20070521**; AT 07010054 T 20070521; DE 602007002008 T 20070521; US 80587407 A 20070524